Substitute for form 1449A/PTO

Sheet

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

ST& TRADEN

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Stories the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

> (use as many sheets as necessary) of

> > 6,050,509

6,036,765

A20

Clarey et al.

Farrow et al.

Complete If Known **Application Number** 10/092,128 03/06/2002 Filing Date BARBEE et al. First Named Inventor 1711 **Group Art Unit Examiner Name RAJGURU Attorney Docket Number** USC3CIPCON2

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
•	A01	6,447,860	Mueller et al.	09-10-2002	1
	A02	6,417,262	Turner et al.	07-09-2002	
	A03	6,407,155	Quian et al.	06-18-2002	
	A04	6,403,231	Mueller et at.	06-11-2002	
	A05	6,391,449	Lan et al.	05-21-2002	
	A06	6,384,121	Barbee et al.	05-07-2002	
	A07	6,376,591	Lan et al.	04-23-2002	7
	A08	6,350,805	Korbee et al.	02-26-2002	
\mathcal{A}	A09	6,254,803	Matthews et al.	07-03-2001	-
	A10	6,232,388	Lan, et al.	05-15-2001	0:
1	A11	6,156,835	Anderson et al.	12-05-2000	0 8
4	A12	6,162,857	Trexler et al.	12-19-2000	\\~~~\
	A13	6,120,860	Bowen et al.	09-19-2000	2 7
_1	A14	6,117,541	Frisk	09-12-2000	
	A15	6,084,019	Mataybas	07-04-2000	H V
	A16	6,071,988	Barbee et al.	06-06-2000	R W
	A17	6,057,396	Lan et al.	05-02-2000	7
	A18	6,060,549	Li et al.	05-09-2000	00

04-18-2000

03-14-2000

				F	OREIGN	PATENT DOCUMENT	rs		
	Examiner Initials		Foreign Patent Docume Office 3 Number 4		Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		A21	EP	0940430			09-08-1999		
	7	A22	WO	99/38914			08-05-1999		
		A23	wo	99/15432			04-01-1999		
		A24	WO	98/53000			11-26-1998		
V/ℓ	ζ,	A25	WO	98/29499			07/09/1998		
\mathcal{M}	Π	A26	JP	10168305			06-23-1998		
~	I	A27	EP	0846723			06-10-1998		
		A28	JP	10133013			05-22-1998		
		A29	JP	10077427			03-24-1998		
		√A30	EP	0822163		Serrano et al.	02-04-1998		
	Examiner Signature			VIK	RA	JEVRU Da	nte onsidered	SEP 25,2	003

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

→ +

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

JAN 2 1 2003

TA TRADE

Complete If Known Substitute for form 1449A/PTO Application Number 10/092,128 03/06/2002 INFORMATION DISCLOSURE Filing Date BARBEE et al. First Named Inventor STATEMENT BY APPLICANT 1711 **Group Art Unit** RAJGURU (use as many sheets as necessary) **Examiner Name** USC3CIPCON2 10 **Attorney Docket Number** of Sheet

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.1	V.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Bl	6,034,163	Barbee et al.	03-07-2000	
	B2	6,017,632	Pinnavaia et al.	01-25-2000	
	B 3	5,993,769	Pinnavaia et al.	11-30-1999	
	B4	5,972,448	Frisk et al.	10-26-1999	
/	B5	5,952,093	Nichols et al.	09-14-1999	
	B6	5,942,320	Miyake et al.	08-24-1999	—
	B7	5,916,685	Frisk et al.	06-29-1999	\ <u>m</u>
100	B8	5,882,751	Occhiello et al.	03-16-1999	<u> </u>
	B09	5,876,812	Frisk et al.	03-02-1999	\
	B10	5,849,830	Tipursky et al.	12-15-1998	\ 0
	B11	5,830,544	Kerscher et al.	11-03-1998	\~ \>
	B12	5,807,630	Christie et al.	09-15-1998	\cap \(\frac{1}{2} \)
	B13	5,780,376	Gonzales et al.	07-14-1998	
	B14	5,747,560	Christiani et al.	05-05-1998	m 53 1
	B15	5,728,764	Bauer et al.	03-17-1998	- 2 (3 (
	B16	5,665,454	Hosoi et al.	09-09-1997	
	B17	5,660,761	Katsumoto et al.	08-26-1997	
	B18	5,648,159	Sato	07-15-1997	
	B19	5,620,774	Etchu et al.	04-15-1997	
	B20	5,612,138	Kurts et al.	03-18-1997	

				F	OREIGN	PATENT DOCUMENT	S		
	Т			Foreign Patent Docume			Date of	Pages, Columns, Lines, Where Relevant	
Examiner Initials		Cite No. ¹	Office ³	Kind Code ⁵ (if known)		Name of Patentee or Applicant of Cited Document	Publication of Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
	1	B21	wo	98/01346			01-15-1998		
	1	B22	JP	10001608			01-06-1998		
	7	B23	WO	97/02323			01-23-1997		
na	I	B24	WO	97/44384			11-27-1997		
1/1 5	\perp	B25	wo	97/31973			09-04-1997		
	\Box	B26	wo	97/31057			08-28-1997		
		B27	wo	97/30950			08-28-1997		
	\perp	B28	JP	9217012		,	08-19-1997		
		B29	JP	9176461			07-08-1997		
		B30	EP	780340			06-25-1997		

Examiner Signature U.K. RAGURU Date Considered SEP 25, 2003

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

à marayad far y

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

o.s. Patent and Trademark Office. C.s. DEPARTMENT OF COMMERCE of the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

+

Complete If Known Substitute for form 1449A/PTO **Application Number** 10/092,128 **Filing Date** 03/06/2002 INFORMATION DISCLOSURE BARBEE et al. STATEMENT BY APPLICANT First Named Inventor 1711 **Group Art Unit** RAJGURU (use as many sheets as necessary) Examiner Name USC3CIPCON2 Sheet of 10 Attorney Docket Number

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	C01	5,578,672	Beall et al.	11-26-1996	
	C02	5,552,469	Beall et al.	09-03-1996	
	C03	5,530,052	Takekoshi et al.	06-25-1996	
	C04	5,523,045	Kudert et al.	06-04-1996	
	C05	5,514,734	Maxfield et al.	05-07-1996	,
/	C06	5,454,865	Ginn et al.	10-03-1995	
	C07	5,434,000	Konagaya et al.	07-18-1995	r
10	C08	5,429,999	Nae et al.	07-04-1995	EC
	C09	5,414,042	Yasue et al.	05-09-1995	<u> </u>
ا (بر	C10	5,385,776	Maxfield et al.	01-31-1995	ot
	C11	5,382,650	Kasowski et al.	01-17-1995	0
	C12	5,374,306	Schlegel et al.	12-20-1994	120
	C13	5,371,051	Pope et al.	12-06-1994	2 7
	C14	5,340,884	Mills et al.	08-23-1994	2/
	C15	5,336,647	Nae et al.	08-09-1994	TEN CO
	C16	5,334,241	Jordan	08-02-1994	29 20 0
	C17	5,314,987	Kim et al.	05-24-1994	17
	C18	5,273,706	Laughner	12-28-1993	
	¢19	5,248,720	Deguchi et al.	09-28-1993	
	C20	5,221,507	Beck et al.	06-22-1993	

					PATENT DOCUMENT	`S		
Examiner Initials	Cite No.1	Office 3	Foreign Patent Docume Number 4	nt Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	C21	wo	97/17398			05-15-1997		
	C22	EP	0761739			03-12-1997		
	C23	JP	09048908			02-18-1997		
	C24	EP	747451			12-11-1996		
$A \cap A$	C25	EP	681990			11-15-1996		
$\langle K \rangle$	C26	WO	96/25458			08-22-1996		
17	C27	WO	96/08526			03-21-1996		
	C28	EP	0691376			01-10-1996		
	C29	EP	0691212			01-10-1996		
	/C30	WO	95/14733			06-01-1995		

•					
	Examiner Signature	U.K.	RAIGURU	Date Considered	SEP 25,2003
1				Communica	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

T "D

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Phase type a plus sign (+) inside this box -

PTO/SB/08A (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Complete If Known Substitute for form 1449A/PTO **Application Number** 10/092,128 03/06/2002 INFORMATION DISCLOSURE **Filing Date** First Named Inventor BARBEE et al. STATEMENT BY APPLICANT **Group Art Unit** 1711 **RAJGURU** (use as many sheets as necessary) **Examiner Name** 10 Attorney Docket Number USC3CIPCON2 of Sheet

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No 1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	/D01	5,206,284	Fukui et al.	04-27-1993	
/	D02	5,164,460	Yano et al.	11-17-1992	\
	D03	5,153,061	Cavagna et al.	10-06-1992	
	D04	5,153,062	Grolig et al.	10-06-1992	
	D05	5,149,485	Belcher	09-22-1992	
/	D06	5,110,501	Knudson Jr. et al.	05-05-1992	
$\overline{}$	D07	5,102,948	Deguchi et al.	04-07-1992	
6	D08	5, 091,462	Fukui et al.	02-25-1992	
	D09	5,037,285	Kudert et al.	08-06-1991	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7	D10	5,034,252	Nilsson et al.	07-23-1991	\
2	D11	5,028,462	Matlack et al.	07-02-1991	00.00
	D12	5,011,534	Berube	04-30-91	\ 8 3
	D13	4,994,313	Shimizu et al.	02-19-1991	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	D14	4,983,719	Fox et al.	01-08-1991	2 7
	D15_	4,983,432	Bissot	01-08-1991	2/ 2,
	D16	4,957,980	Kobayashi et al.	09-18-1990	W /8
	D17	4,946,365	Kudert et al.	08-07-1990	20 (3) (
	D18	4,894,411	Okada et al.	01-16-1990	.7
	D19	4,889,885	Usuki et al.	12-26-1989	S
	D20	4,810,734	Kawasumi et al.	03-07-1989	

		Foreign Patent Document]	Pages, Columns, Lines,		
Examiner Initials	Cite No. ¹	Office 3	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T
	D21	EP	650994			05-03-1995		
	D22	wo	95/06090			03-02-1995		
	D23	JP	7026123			01-27-1995		
/	D24	wo	94/29378			12-22-1994		
	D25	WO	94/11430			05-26-1994		
	D26	EP	0590263			04-06-1994		
	D27	wo	93/14922			08-05-1993		
- 5	D28	wo	93/11190			06-10-1993		
	D29	EP	542266			05-19-1993	Y	
	D30	WO	93/04125			03-04-1993		7

Examiner RAJEURY Date SEP 25,2003 Signature Considered

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Complete If Known Substitute for form 1449A/PTO **Application Number** 10/092,128 Filing Date 03/06/2002 INFORMATION DISCLOSURE First Named Inventor BARBEE et al. STATEMENT BY APPLICANT 1711 **Group Art Unit** RAJGURU (use as many sheets as necessary) **Examiner Name** USC3CIPCON2 Sheet of 10 **Attorney Docket Number**

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	EÓ1	4,777,206	Rittler	10-11-1988	
	E02	4,769,078	Tso	09-06-1988	
	E03	4,742,098	Finlayson et al.	05-03-1988	
	E04	4,739,007	Okada et al.	04-19-1988	
	E05	4,725,466	Crass et al.	02-16-1988	
	E06	4,720,420	Crass et al.	01-19-1988	
/	E07	4,680,208	Aoki et al.	07-14-1987	
7	E08	4,677,158	Tso et al.	06-30-1987	/ Ω
10	E09	4,676,929	Rittler	06-30-1987	\ \\
	E10	4,646,925	Nohara	03-03-1987	7 5 7
7	E11	4,600,409	Campbell	07-15-1986	\ 8 55 17
	E12	4,595,715	Kuze et al.	06-17-1986	170
	E13	4,546,126	Breitenfellner et al.	10-08-1985	6 2 0
	E14	4,536,425	Hekal	08-20-1985	# 2 2
	E15	4,517,112	Mardis et al.	05-14-1985	一意血
	E16	4,482,695	Barbee et al.	11-13-1984	
- 1	E17	4,472,538	Kamigaito et al.	09-18-1984	
	E18	4,450,095	Finlayson	05-22-1984	8 1
	E19	4,442,163	Kuhner et al.	04-10-1984	
	E20	4,434,076	Mardis et al.	02-28-1984	

				F	OREIGN	PATENT DOCUMENT	'S		
				Foreign Patent Docume	nt	\$		Pages, Columns, Lines,	
Examine Initials		Cite No. ¹	Office 3	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Τ [¢]
	1	321	wo	93/04117			03-04-1993		
	E	222	EP	459472			12-04-1991		
	<i>]</i> I	323	EP	398551			11-22-1990		
	E	324	EP	295336			12-21-1988		
1108	E	€25	DE	3808623			10-06-1988		
MX	E	326	DE	3806548			09-15-1988	`	
1 -	/ E	327	EP	278403			08-17-1988		
	I	328	EP	261430			03-30-1988		
	I	329	JP	62073943			94-04-1987		
	Y	30	EP	0202532			11-26-1986		

Examiner Date AJEURU Signature Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF CUMMENCE Of Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Complete If Known Substitute for form 1449A/PTO **Application Number** 10/092,128 Filing Date 03/06/2002 INFORMATION DISCLOSURE BARBEE et al. STATEMENT BY APPLICANT First Named Inventor 1711 **Group Art Unit RAJGURU** (use as many sheets as necessary) **Examiner Name** USC3CIPCON2 Sheet of 10 **Attorney Docket Number**

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	F01	4,429,079	Shibata et al.	01-31-1984	
	F02	4,398,642	Okudaria et al.	08-16-1983	
$\overline{}$	F03	4,393,007	Priester et al.	07-12-1983	
	F04	4,381,948	McConnell	05-03-1983	
	F05	4,239,826	Knott, II et al.	12-16-1980	
	F06	4,219,527	Edelman et al.	08-26-1980	
	F07	4,163,002	Pohl et al.	07-31-1979	37
\leq	F08	4,161,578	Herron	07-17-1979	(C)
	F09	4,133,802	Hachiboshi et al.	01-09-1979	_ \
	F10	4,071,503	Thomas et al.	01-31-1978	\
	F11	4,064,112	Rothe et al.	12-20-1977	\ 0 4:
	F12	4,018,746	Brinkmann et al.	04-19-1977	\ < \>
	F13	3,946,089	Furukawa et al.	03-23-1976	(2)
	F14	3,876,552	Moynihan	04-08-1975	\ \frac{1}{2}.
	F15	3,843,479	Matsunami et al.	10-22-1974	W 0
	F16	3,823,169	Staub	07-09-1974	2
	F17	3,879,283	Mercade	04-22-1975	~
	F18	3,792,969	Gertisser	02-19-1974	8
\overline{Z}	E19	3,700,398	Cole, Jr.	10-24-1972	
	F20	3,646,072	Shaw	02-29-1972	

	FOREIGN PATENT DOCUMENTS												
Examiner Initials	Cite No.1	Office 3	Foreign Patent Docume Number 4	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶					
C	F21	EP	186456			07-02-1986							
	F22	wo	84/03096		_ ^	08-16-1984							
	F23	GB	2123014			01-25-1984							
	F24	JP	76029697			03-09-1976							
$\mathcal{L}(D)$	F25	JP	75010196			04-18-1975							
DAK I	F26	JP	75005751			03-06-1975							
50	F27	JP	75005735			03-06-1975							
	F28	JP	75001156			01-16-1975							
	F29	GB	1090036			11-08-1967							
	F30	WO	99/41299			08-19-1999							

Examiner	1 1 K D	Date	
0:	I I A KAIGIPII	Date	SED 15 2010
Signature	1 A , 1 / LIM Jacolog	Considered	10105

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 3 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Complete If Known Substitute for form 1449A/PTO **Application Number** 10/092,128 Filing Date 03/06/2002 INFORMATION DISCLOSURE BARBEE et al. STATEMENT BY APPLICANT First Named Inventor Group Art Unit 1711 **RAJGURU** (use as many sheets as necessary) **Examiner Name** Sheet of **Attorney Docket Number** USC3CIPCON2

	U.S. PATENT DOCUMENTS												
Examiner Initials	Cite No. 1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear								
	G 01	3,627,625	Jarrett	12-14-1971									
/_	G02	3,544,523	Maxion	12-01-1970									
	G03	3,514,498	Okazaki et al.	05-26-1970									
	G04	3,499,916	Berthold	03-10-1970									
	G05	3,391,164	Straley et al.	07-02-1968									
	G06	3,281,434	Turetzky et al.	10-25-1966									
/_	G07	3,232,934	Hoare	02-01-1966	7 8								
/_	G08	3,125,586	Katz et al.	03-17-1964	\ =								
	G09	3,076,821	Hoare	02-05-1963	\ <u></u>								
18	G10	2,957,010	Straley et al.	10-18-1960	101								
787	G11	2,938,914	Joyce	05-31-1960	1 2 2 5								
~ \	G12	2,924,609	Joyce	02-09-1960	1071								
	G13	2,737,517	Boyd	03-06-1956									
	G14	3,849,406	Basel et al.	11-19-1974									
	G15	2,531,427	Hauser	11-28-1950	* 2 C								
	G16	2,966,506	Jordan	12-27-1960									
	G17	4,081,496	Finlayson	03-28-1978	6/								
	G18	4,105,578	Finlayson	08-08-1978									
	G19	4,116,866	Finlayson	09-26-1978									
	G20	4,208,218	Finlayson	06-17-1980									

			F	OREIGN	PATENT DOCUMENT	S		
Examiner Initials	Cite No.	Office ³	oreign Patent Docume Number 4	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶ .
	G21	WO	0034393			06-15-2000		
$-\lambda$	G22	WO	0034378			06-15-2000		
100)	G23	EP	090787			04-21-1999		
K/KZ	G24	EP	0822163			02-04-1998		
	G25	EP	0899301			03-03-1999		
5 7	G26	wo	93/04118			03-04-1993		

Examiner Signature Date Considered SEP	25,2003
--	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
of the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for	or form 144	9A/PTO		Complete If Known				
				Application Number	10/092,128			
INFOR	MATI(ON DISC	LOSURE	Filing Date	03/06/2002			
STATE	MENT	BY API	PLICANT	First Named Inventor	BARBEE et al.			
				Group Art Unit	1711			
(use	as many s	heets as nec	ressary)	Examiner Name	RAJGURU			
Sheet	8	of	10	Attorney Docket Number	USC3CIPCON2			

	U.S. PATENT DOCUMENTS											
Examiner Initials	Cite No.1	U.S. Patent Document te Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear						
	H01	4,391,637		Mardis et al.	07-05-1983							
	H02	4,410,364		Finlayson et al.	10-18-1983							
	H03	4,412,018		Finlayson et al.	10-25-1983							
100	H04	4,434,075		Mardis et al.	02-28-1984							
K(S)	H05	5,164,440		Deguchi et al.	11-17-1992							
- V	H06	10/072,759		Barbee et al.								
	H07	10/144,427		Turner et al.								
	H08	10/145,833		Gilmer et al.								
	ļ											
					ļ							
					 	<u>m</u>						
			-									
	-				 							
					 							
			-		 	——————————————————————————————————————						
					+							
					 	7 FF						
					 							

	FOREIGN PATENT DOCUMENTS											
			Foreign Patent Docum	nent			Pages, Columns, Lines,					
Examiner Initials	Cite No. ¹	Office 3	Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ⁶				

dered SEP 25, 200	ક્ર
	idered >FP25,200

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

		<u> </u>						_
		Substitute f	or form 144	9B/PTO		Comp	Known	
1 DE	~ .			•		Application Number	10/092,128	
6,	,C	INFOR	MATIC	ON DISC	LOSURE	Filing Date	03/06/2002	
. 1					LICANT	First Named Inventor	BARBEE et al.	
7W 517		į.				Group Art Unit	1711	
		(use	as many s	heets as nec	essary)	Examiner Name	RAJGURU	
STEMF & TR	STATE OF THE PARTY	Sheet	9	of	10	Attorney Docket Number	USC3CIPCON2	
7 111								

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number)s), publisher, city and/or county where published.	
	11	LEBARON et al., "Polymer-Layered Silicate Nanocomposites: an Overview," App. Clay Sci., 15, 11-29 (1999)	
	12	KE et al., "Crystallization, Properties, and Crystal Nanoscale Morphology of PET-Clay Nanocomposites," J. Appl. Polym. Sci., 71, 1139-1146 (1999)	
	13	GIANNELIS, "Polymer Layered Silicate Nanocomposites," Advanced Materials, 8, 29-35 (1996)	
	14	ORIAKHI et al., "Incorporation of poly(aerylic acid), poly(vinylsulfonate) and poly(styrenesulfonate) within layered double hydroxides," J. Mazer Chem., 6, 103-107 (1996)	
R	15	MESSERSMITH et al., "Synthesis and Barrier Properties of Poly(t-Caprolactone)-Layered Silicate Nanocomposites," J. of Polym. Sci., 33, 1047-1057 (1995)	
	I6	SUGAHARA et al., "Clay-Organic Nano-Composite; Preparation of a Kaolinite - Poly(vinylpyrrolidone) Intercalation Compound," J. Ceramic Society of Japan, 100, 413-416 (1992).	
	17	YANO et al., "Synthesis and properties of polyimide-clay hybrid," ACS, Polymer Preprints, 32, 65-66 (1991)	
	18	FUKUSHIMA et al., "Swelling Behavior of Montmorillonite by Poly-6- Amide," Clay Minerals, 23, 27-34 (1988)	
	19	VERBICKY, Encyclopedia of Polymer Science and Engineering, 2nd Edition, 12, 364-383 (1988)	
	I10	FUKUSHIMA et al., "Synthesis of an Intercalated Compound of Montmorillonite and 6-Polyamide," J. Inclusion Phenomana, 5, 473-482 (1987)	
1	III	OKADA et al., "Synthesis and Characterization of a Nylon 6-Clay Hybrid," ACS, Polymer Preprints, 28, 447-448 (1987)	

Examiner Signature	U.K RAJQURU	Date Considered	SEP 25,2003
APPLANTED TO 12		1000 000 000 110 1	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

OPE	Substitute 1	for form 144	9B/PTO	<u> </u>	Complete If Known			
	m &:	01 101111 14	,2,,,0		Application Number	10/092,128		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Filing Date	03/06/2002		
					First Named Inventor	BARBEE et al.		
TENT & TO!	PHILE.				Group Art Unit	1711		
- alm	(1	ise as man	y sheets as nec	ressary)	Examiner Name	RAJGURU		
	Sheet	10	of	10	Attorney Docket Number	USC3CIPCON2		

Examine Initials	r Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number)s), publisher, city and/or county where published.	T ²						
	n	FAHN ET AL., "Reaction Products or Organic Dye Molecules with Acid-Treated Montmorillonite," Clay Minerals, 18, 447-458 (1983)							
	J2	GREENLAND, "Adsorption of Polyvinyl Alcohols by Montmorillonite," J. Colloid Sci., 18, 647-664 (1963)							
	13	T. J. PINNAVAIA and TIE LAN, "Clay-Reinforced Epoxy Nanocomposites," Chem. Mater, 6, 2216 (1994)r							
	J4	Y. KUROKAWA, H. YASUDA, A. OYA, "Preparation of a Nanocomposite of Polypropylene and Smectite," Mater. Sci. Letters, 15, 1481 (1996)							
J5 M. KAWASUMI, N. HASEGAWA, M. KATO, A. USUKI, and A. OKADA, "Preparation as Mechanical Properties of Polypropulene-Clay Hybrids," <i>Macromolecules</i> , 30, 6333 (1997)									
	16	A. USUKI, M. KATO, A. OKADA, T. KURAUCHI, "Synthesis of Propylene-Clay Hybrid," J. App. Polym. Sci., 63, 137 (1997)							
	17	C.O. SRIAKHI et al. J. Mater. Chem., 6, 103 (1996).							
		ТЕСН							
		LECHNOTOGA CF	13.15						
		CENTER							
Exa	miner	V.K. RAJGURU Date Considered SEP 25, 20							

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.